

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 166 (ROLLING ROAD) AT MD 372 (WILKENS AVE)/ PRIVATE ENTRANCE IN BALTIMORE COUNTY. MD 166 IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION.

MD 166 IS BEING WIDENED ON THE EAST SIDE. THE EXISTING CABINET IS BEING REPLACED WITH A NEW "S" STYLE BATTERY BACKUP CABINET LOCATED ON THE EXISTING FOUNDATION USING AN "S" CABINET EXTENDER BASE. THE EXISTING INTERCONNECT CABLE IS BEING RELOCATED.

INTERSECTION OPERATION

A NEW CONTROLLER HOUSED IN AN "S" STYLE BASE MOUNTED CABINET WILL BE USED AT THIS LOCATION. THE INTERSECTION WILL CONTINUE TO OPERATE IN A FULLY ACTUATED MODE USING 6 NEMA PHASES. THERE IS AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR THE NORTH AND SOUTHBOUND MOVEMENTS OF MD 166. A RIGHT TURN OVERLAP FROM WB MD 372 TO NB MD 166 IS TO BE ADDED. THE MD 166 THROUGH MOVEMENTS OPERATE CONCURRENTLY. THE MD 372/ PRIVATE ENTRANCE MOVEMENTS OPERATE IN A SIDE STREET SPLIT PHASE MODE. THE EXISTING RIGHT TURN OVERLAP FROM NB MD 166 TO EB MD 372 IS BEING REMOVED.

CONTACT LIST

THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

MS. ERIN KUHN, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: 410-229-2381
MR. DONALD SCHAEFFER, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410)-229-2421
MR. ANDRE FUTRELL, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: 410-229-2361
MR. MICHAEL PASOARIELLO, UTILITY ENGINEER
PHONE: 410-229-2341
MS. CORREN JOHNSON, CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
MR. EDWARD RODENHIZER, SUPERVISOR, SIGNAL OPERATIONS
PHONE: (410) 787-7652

THE POWER COMPANY REPRESENTATIVE IS:

BALTIMORE GAS & ELECTRIC
1068 NORTH FRONT STREET
BALTIMORE, MD 21202
410-637-8713
WMS#

EQUIPMENT LIST

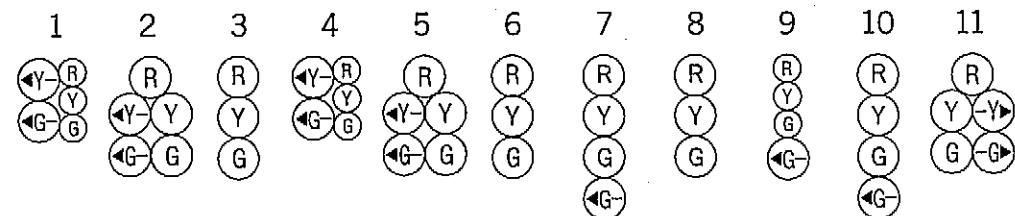
A. EQUIPMENT TO BE SUPPLIED BY THE MARYLAND STATE HIGHWAY ADMINISTRATION.

NONE.

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

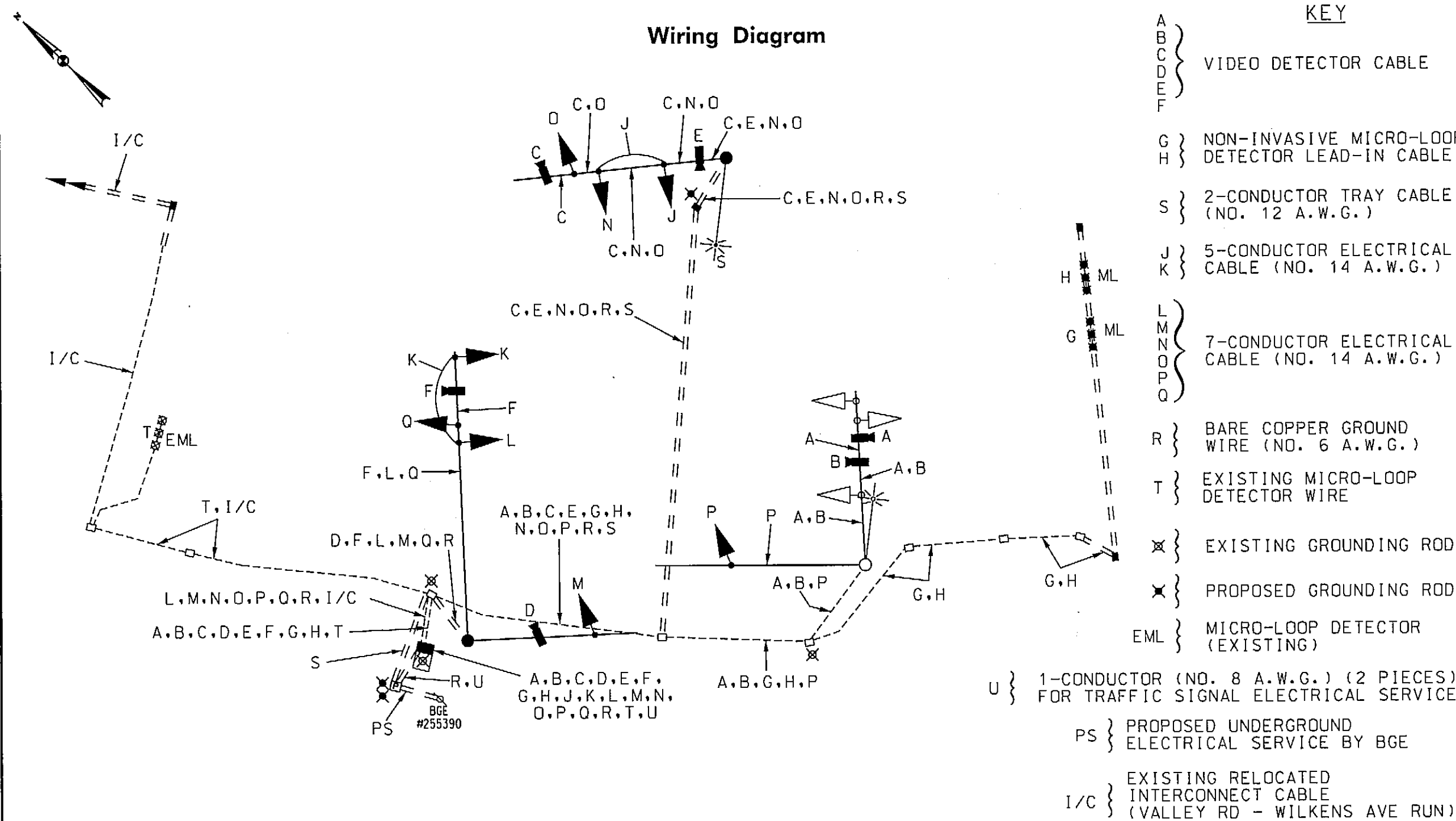
QUANTITY	UNITS	DESCRIPTION
LUMP SUM	LS	MAINTENANCE OF TRAFFIC
LUMP SUM	LS	MOBILIZATION
1	EA	27 FT. STEEL MAST ARM POLE WITH 50 FT. MAST ARM
1	EA	27 FT. STEEL TWIN MAST ARM POLE WITH 50 FT. AND 70 FT. MAST ARMS
1	EA	20 FT. LUMINAIRE ARM
1	EA	LED LAMP AND LUMINAIRE
6	EA	VIDEO DETECTOR CAMERA (TERRA)
1375	EA	VIDEO DETECTOR CAMERA CABLE
1	EA	STANDARD SHA BASE MOUNTED NEMA "S" CABINET WITH CONTROLLER, UNINTERRUPTIBLE POWER SUPPLY, VIDEO DETECTION INTERFACE, TELEMETRY INTERFACE, AND FOUR-CHANNEL LOOP DETECTOR AMPLIFIER [NOTE: CABINET SHALL BE PURCHASED FROM ECONOLITE AND DELIVERED TO THE SHA SIGNAL SHOP FOR WIPING AND TESTING. CONTACT MR. ED RODENHIZER (410) 787-7650] THE EXISTING CONTROLLER SHALL BE RELOCATED.
2	EA	NON-INVASIVE PROBE (SET GF 3) WITH 1000 FT. LEAD-IN CABLE
2	EA	12 IN. 3-SECTION LED SIGNAL HEAD - MAST
1	EA	8 IN./12 IN. 4-SECTION LED SIGNAL HEAD - MAST
1	EA	12 IN. 4-SECTION LED SIGNAL HEAD - MAST
1	EA	8 IN./12 IN. 5-SECTION LED SIGNAL HEAD - MAST
1	EA	12 IN. 5-SECTION LED SIGNAL HEAD (LEFT TURN) - MAST
1	EA	12 IN. 5-SECTION LED SIGNAL HEAD (RIGHT TURN) - MAST
1	EA	30 IN.X 36 IN. R3-5(R) REGULATORY SIGN - MAST ARM
2	EA	16 IN.X VAR. D-3(1) DUAL FACED SIGN - MAST ARM
1	EA	21 IN.X 15 IN. M6-1 SIGN FOR GROUND MOUNTING
1	EA	24 IN.X 12 IN. M3-1 SIGN FOR GROUND MOUNTING
1	EA	30 IN.X 24 IN. M1-5 SIGN FOR GROUND MOUNTING
18	LF	4 IN. X 4 IN. WOOD SIGN SUPPORTS
3	CY	TEST PIT EXCAVATION
4	EA	HANDHOLE
255	LF	2-CONDUCTOR TRAY CABLE (NO.12 AWG)
50	LF	5-CONDUCTOR CABLE (NO. 14 AWG)
1000	LF	7-CONDUCTOR CABLE (NO. 14 AWG)
145	LF	BARE COPPER GROUND WIRE (NO. 6 AWG)
25	LF	2 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
35	LF	3 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
80	LF	3 IN. PVC CONDUIT [SCHEDULE 80] - BORED
10	LF	4 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
110	LF	4 IN. PVC CONDUIT [SCHEDULE 80] - SLOTTED IN ROADWAY
10	CY	CONCRETE FOUNDATION FOR TRAFFIC SIGNAL EQUIPMENT
3	EA	GROUND ROD - 3/4 IN. X 10 FT. LENGTH
1	EA	EMBEDDED ELECTRICAL SERVICE PEDESTAL (100 AMPS)
70	LF	24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING - STOP LINE
1	EA	RELOCATE EXISTING SIGNAL HEAD
79	SF	REMOVE & REPLACE 4 IN. SIDEWALK
1	EA	REMOVE AND DISPOSE OF EXISTING CONCRETE FOUNDATION 12 INCHES BELOW GRADE
1	EA	ADJUST EXISTING HANDHOLE FRAME AND COVER
2	EA	CUT, CLEAN AND CAP MAST ARM/ POLE
1	EA	REMOVE AND REPLACE BASE MOUNTED CABINET
LUMP SUM	LS	REMOVE EXISTING SIGNAL EQUIPMENT
LUMP SUM	LS	POLICE OFFICER CONTROL DURING CABINET SWAP
1	EA	"S" CABINET EXTENDER BASE (5" HEIGHT)
40	LF	REMOVE EXISTING PAVEMENT MARKINGS BY GRINDING

Phase Chart



PHASE 1 AND 5	+GR	+GR	R	+GR	+GR	R	R	R	R	R	R/G	
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6												
PHASE 1 AND 6	+GG	+GG	G	R	R	R	R	R	R	R	R	
1 CHANGE	+YG	+YG	G	R	R	R	R	R	R	R	R	
PHASE 2 AND 5	R	R	R	+GG	+GG	G	R	R	R	R	R/G	
5 CHANGE	R	R	R	+YG	+YG	G	R	R	R	R	R/Y	
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	
PHASE 3	R	R	R	R	R	R	G	G	R	R	R	
3 CHANGE	R	R	R	R	R	R	Y	Y	R	R	R	
PHASE 4	R	R	R	R	R	R	R	R	G	G	G	
4 CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	

Wiring Diagram



MD-AMD Tracking No.: 11APBA015

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 166 (ROLLING ROAD) AT MD 372 (WILKENS AVENUE)

CATONSVILLE, MD

GENERAL INFORMATION PLAN

SCALE: N/A DATE: JULY 18, 2013 CONTRACT NO.: BW999M82

DESIGNED BY: J. STORCK COUNTY: BALTIMORE
DRAWN BY: J. STORCK LOGMILE: 03016600.95
CHECKED BY: J. DINDORFER TMS NO.: 1943
F.A.P. NO.: N/A TOD NO.: N/A

TS NO. 2258-F DRAWING SG - 01 61 SHEET NO. 2 OF 3

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The Traffic Group, Inc.
Suite H
9900 Franklin Square Drive
Baltimore, Maryland 21236
410-931-6600
1-800-583-8411
Fax 410-931-6601

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BY: JStorck